

UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.

Total Pages in this Submission

TO THE ASSISTANT COMMISSIONER FOR PATENTS

Box Patent Application
Washington, D.C. 20231

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

METHOD OF PLAYING A GAME INVOLVING QUESTIONS AND ANSWERS

and invented by:

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If a CONTINUATION APPLICATION, check appropriate box and supply the requisite information:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

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Enclosed are:

Application Elements

1. ☒ Filing fee as calculated and transmitted as described below
2. ☒ Specification having 37 pages and including the following:
 - a. ☒ Descriptive Title of the Invention
 - b. ☐ Cross References to Related Applications (if applicable)
 - c. ☐ Statement Regarding Federally-sponsored Research/Development (if applicable)
 - d. ☐ Reference to Microfiche Appendix (if applicable)
 - e. ☒ Background of the Invention
 - f. ☒ Brief Summary of the Invention
 - g. ☒ Brief Description of the Drawings (if drawings filed)
 - h. ☒ Detailed Description
 - i. ☒ Claim(s) as Classified Below
 - j. ☒ Abstract of the Disclosure

**UTILITY PATENT APPLICATION TRANSMITTAL
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Application Elements (Continued)

3. ☒ Drawing(s) *(when necessary as prescribed by 35 USC 113)*

- a. ☐ Formal Number of Sheets _____
- b. ☒ Informal Number of Sheets 3

4. ☒ Oath or Declaration

- a. ☐ Newly executed *(original or copy)* ☒ Unexecuted
- b. ☐ Copy from a prior application (37 CFR 1.63(d)) *(for continuation/divisional application only)*
- c. ☒ With Power of Attorney ☐ Without Power of Attorney
- d. ☐ DELETION OF INVENTOR(S)

Signed statement attached deleting inventor(s) named in the prior application,
see 37 C.F.R. 1.63(d)(2) and 1.33(b).

5. ☐ Incorporation By Reference *(usable if Box 4b is checked)*

The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

6. ☐ Computer Program in Microfiche *(Appendix)*

7. ☐ Nucleotide and/or Amino Acid Sequence Submission *(if applicable, all must be included)*

- a. ☐ Paper Copy
- b. ☐ Computer Readable Copy *(identical to computer copy)*
- c. ☐ Statement Verifying Identical Paper and Computer Readable Copy

Accompanying Application Parts

8. ☐ Assignment Papers *(cover sheet & document(s))*
9. ☐ 37 CFR 3.73(B) Statement *(when there is an assignee)*
10. ☐ English Translation Document *(if applicable)*
11. ☐ Information Disclosure Statement/PTO-1449 ☐ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Acknowledgment postcard
14. ☒ Certificate of Mailing

☐ First Class ☒ Express Mail *(Specify Label No.):* EL622115531

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Accompanying Application Parts (Continued)

15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)

16. ☐ Additional Enclosures (please identify below):

Fee Calculation and Transmittal

CLAIMS AS FILED

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	81	- 20 =	61	x \$18.00	\$1,098.00
Indep. Claims	9	- 3 =	6	x \$78.00	\$468.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
BASIC FEE					\$690.00
OTHER FEE (specify purpose)					\$0.00
TOTAL FILING FEE					\$2,256.00

- ☒ A check in the amount of **\$2,256.00** to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge and credit Deposit Account No. **18-0875** as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of _____ as filing fee.
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- ☒ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
- ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).

Dated:

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METHOD OF PLAYING A GAME INVOLVING QUESTIONS AND ANSWERS

Background of the Invention

Many enjoyable games involve a player's knowledge of subject matter other than game rules, game odds, and game strategy, such that a player with relevant, superior knowledge obtains an improved possibility of obtaining success in the game. Such games are a type of “skill” game, rather than a game of chance.

A popular board type skill game known as “Trivial Pursuit” involves the use of a playing piece associated with each player that moves about a playing board with several different colored squares comprising potential landing areas. The player's piece is moved a number of squares and lands on a landing area corresponding to the number of black dots face up after the roll of a die. The game also includes a large number of cards, where one surface of the card bears colors corresponding to the colors of the landing spaces, each of which in turn corresponds to a particular category of knowledge, such as sports, geography, history, etc. The same face of the card also includes a question for each color or knowledge category. The reverse side of the card bears corresponding colors and an associated, correct answer to the corresponding question. When a player's playing piece lands on a square of a certain color, another player picks one of the cards, and reads to the player the question on the card corresponding to the color/knowledge category of the landing area. For example if the player's playing piece lands on a colored square corresponding to the history category, the question on the card may be, for example, “Who was the U.S. President who obtained the largest percentage margin of victory in a Presidential election since 1900?” If the player correctly answers the question, then the player continues his turn, otherwise the turn passes to another player. Without elaborating further on the details of the rules of play of the Trivial Pursuit game, it is to the

player's advantage to correctly answer the question and to continue play.

Another popular skill game broadcast by television is known as “Jeopardy”. This game utilizes a number of statements arranged in a rectangular array, with the columns of the array representing different subject matters, such as American history, silent films, baseball, etc., and the rows indicating different monetary values, such as \$50, \$100, etc. Initially the players do not see the statements, and when a player has a turn, the player may select a statement by designating the column and row, such as “American history for \$100”. The statement would then be revealed, for example, “He was the first of the first pair of Presidents having the same last name”, and the player would then respond with a question, “Who was John Adams?” for the correct response or “Who was Joe Jones?” for an incorrect response. If a player responds incorrectly, then the player loses a turn, however, if the player responds correctly, then the player is awarded the monetary value associated with the statement. It will be appreciated that although the Jeopardy game presents a statement, and asks a player to respond with the proper question, in essence, the statement is really a question and the response is really an answer. Other details of the Jeopardy game are believed to be immaterial to the instant application, but suffice it to say that by responding correctly, a player achieves greater success in the game.

In yet another popular skill game broadcast by television known as “Who Wants to Be A Millionaire”, a contestant or player is sequentially asked a series of questions and then usually given four multiple choice potential answers to each question, one of which is the correct answer. For each question, the player is awarded an increasing amount of money for choosing the correct answer. Usually the questions and potential answers presented later in the sequence are more difficult to correctly answer than those presented earlier in the sequence. Again, other details of the game are

believed to be immaterial, however, the player's knowledge or skill permits the player to have a better chance of success in playing the game.

In yet another popular televised skill game known as “Family Feud”, a team of players or contestants is presented with a question such as “name things that crawl”, and then the team must answer the question with what the team thinks are the most frequent answers previously given by a group of people. Usually, the game requires the team to give answers that correctly identify the most frequent three, four, or five answers before the team gives three answers that are not in the most frequent three, four, or five answers. The team is awarded points for its answers that correspond with the most frequent answers given by the group. Other details respecting this game are not material to this background discussion, but again, the knowledge or skill of the players on the team enhances the team's possibility of success in the game.

Skill games such as those described above are not readily adaptable to a wagering type of game, such as a casino game in which players play against the casino or house. If the house sets a standard of achievement of the game such as a certain number of correct answers that must be achieved in order to win, then many unskilled players will lose at the game, some so often that they refuse to continue playing the game. On the other hand, some players may be so skilled that they consistently achieve the standard and win more than they lose, thus “beating the house”. The relatively highly knowledgeable or skilled players would thus play the game to their profit and to the casino's or house's unprofitability.

Virtually all casino wagering games constitute games of chance, rather than skill, with the odds always slightly in the casino's or house's favor. Thus, over a large number of players, or over a long length of play by a single player, the house will achieve a profit.

The present invention generally relates to methods of playing games, such as wagering, casino games, that involve questions and answers and which, for example, adapt the foregoing types of games into games of chance, and not skill, for play in a casino environment.

Summary of the Invention

The present invention relates to a method of playing a game of chance that presents a player with a question and potentially displays a group of answers, at least one of which is a desirable answer.

Brief Description of the Drawings

The present invention will be described with reference to the accompanying drawings wherein like reference numerals refer to the same item.

Figure 1 is a front view of a casino video game machine that may be used in connection with the instant invention;

Figure 2 is a schematic illustration of a video screen of the casino video game machine as shown in Figure 1; and

Figure 3, 4 and 5 illustrate different base curves that may be used in determining a payback for the instant invention.

Detailed Description of the Preferred Embodiments

There is shown in Figure 1 a casino video game machine 10 generally fashioned as a “slant top” machine in which a player usually sits on a stool or chair in front of the machine 10. It should

be appreciated from a further reading of the preferred embodiment that the instant invention may be employed with a wide variety of games, however, such as “upright”, stand alone video game machines and such as games played with a computer monitor and keyboard.

The machine 10 includes a generally boxed shaped base 12 that house electronics and other equipment used in the operation of the game. The machine 10 also includes a slanted section 14 that contains a main game video monitor 16, a series of game control buttons 18 (although the invention contemplates that touch screen, light pen, track ball, mouse, and other game control facilities may be utilized), and monetary acceptance devices 20, such as a bill validator, a coin comparator, and an electronic funds transfer device. The machine 10 also includes an upper display section 22 that may contain graphic displays, lights, and a second video monitor 24. A display sign 26 may be mounted on top of the machine 10.

A preferred embodiment of the present invention relating to an adaption of the Family Feud game will now be described with reference to the casino video game machine 10 as shown in Figure 1. The Family Feud variant game may be played as a basic casino game, or as an adjunct bonus, secondary event feature to a different type of casino game, such as a video poker game or a video slot game.

Prior to the play of the Family Feud game variant, a large number of questions are posed to a group of people, perhaps as many as 100 people. Each person in the group is then asked to provide a single answer to the question. The answers of the group are tallied to determine how many times each particular, different answer was provided. For example, in response to the question, “name something that crawls”, the tally may be:

“baby” 21 times

“spider”	17 times
“snake”	16 times
“worm”	14 times
“snail”	8 times
“ant”	4 times
“centipede”	3 times
“vine”	3 times
many other answers	2 and 1 times

For another example in response to the question, “name things that are usually on a restaurant table”, the tally might be as follows:

“napkin”	14 times
“salt and pepper shaker”	13 times
“water glass”	10 times
“silverware”	8 times
“ketchup”	6 times
“sugar”	5 times
“ashtray”	4 times
a number of other answers	3, 2, and 1 times

The answer having the highest frequency for each question will receive the highest ranking, the next most frequent answer will receive the next highest ranking, etc. A value will then be assigned to each ranking, with the highest value associated with the highest ranking, the next highest value associated with the next highest ranking, etc. The value may be a fixed monetary value, or may be a multiple of the wagered amount, or may be some other type of award or prize.

An electronic database is then prepared of all of the questions and the corresponding groups of the associated answers. The group of associated answers may be any number, but preferably is in the range of six to nine. Of the six to nine most frequent answers, the three least frequent answers will be designated “incorrect” or “undesirable” answers, and the remaining answers will be deemed “correct” or “desirable” answers. It should be appreciated that the three undesirable answers need not even be answers given by any of the persons in the group of persons to whom the question was

posed. However, it is believed that the play of the game will be more exciting if the undesirable answers consist of the next most frequent answers given by the group. The database will also include the value assigned to each desirable answer.

The player begins play of the Family Feud variant by pressing a designated game control button 18, which will cause a series of rectangular displays 30, 32, 34, 36, 38, 40, 42, 44, 46, 48 to appear in the second video monitor 24. The activation of the designated game control button 18 causes a microprocessor to randomly select from the database one of the questions and to display that question in the top-most rectangular display 30. As shown in Figure 2 the question reads, for example, "name something that crawls." Simultaneously with a display of the question in the top-most rectangular display 30, a number of the rectangular displays therebelow will be illuminated in a white color, which number corresponds to the number of "correct" or "desirable" answers. Any remaining rectangular displays beneath the top-most rectangular display 30, will remain dark or in a black color.

After the question is displayed in the top-most rectangular display 30 and a number of other rectangular displays are illuminated in white, which number corresponds with the number of "desirable" answers associated with the question, then the player presses another game control button 18 which activates a microprocessor to randomly select from the database one of the desirable or undesirable answers associated with the question displayed in the top-most rectangular display 30. In the example shown in Figure 2, there are five "desirable" answers consisting of the five most frequent answers, and there are three undesirable answers consisting of the three next most frequent answers. The microprocessor will also assess the ranking and any value of the randomly selected answer. If the desirable answer is the most frequent answer, then the microprocessor will

display the answer and associated value in the rectangular display 32 immediately beneath the top-most rectangular display 30. If the microprocessor determines that the randomly selected desirable answer is the second most frequent answer and has the second highest ranking in value, then the microprocessor will display the answer and the associated value in the rectangular display 34, etc. After the microprocessor has displayed the randomly selected answer in the appropriate rectangular display, then the player again presses a designated game control button 18 to cause the microprocessor to select another remaining one of the desirable and undesirable answers associated with the question. If the answer is undesirable, then the microprocessor will display the answer in the main game video monitor 16, and will display an "X" symbol in the left-most one of three display boxes 44, 46, 48 appearing across the bottom of the main game video monitor 16, as shown in Figure 2. If the microprocessor later selects additional undesirable answers, then the microprocessor will place an X in the middle display box 46, and any further undesirable answer will result in the microprocessor displaying an "X" in the right-most display box 48.

As a desirable answer is displayed, the microprocessor may cause the video game machine 10 to emit a bell like sound associated with joy and winning, and if the microprocessor displays an undesirable answer, then the microprocessor may cause the casino video game machine 10 to emit a buzzer like sound associated with depression or losing. It should be readily apparent that those skilled in the art that other types of sounds or visual displays may be initiated in response to the display of a desirable answer or an undesirable answer.

The play proceeds in a likewise manner with a player pressing a designated player control button 18 until the microprocessor has selected all of the desirable answers, or until the microprocessor has selected three undesirable answers, whereupon the game ends.

select a plurality of questions, preferably three to five questions, from the data base of questions and may display the selected plurality of questions in the second video monitor 24. The questions may be randomly selected from the database or sequentially selected from a prescribed ordering of the questions in the database. When the questions are displayed, the player may select a desired one of the displayed questions to use in the play of the game by pressing a designated control button 18. Such a variation feature permits a player to have some control over the game and to choose a question that will generate more interest or excitement for the player. Nevertheless, as will be appreciated from the description below, the average payback is essentially the same from question to question, and therefore, the player gains no appreciable advantage resulting from the question selection process.

The instant invention may be adapted for playing a Jeopardy variant as follows. For each question, there is a single correct, "desirable" answer; and one or more predetermined incorrect, "undesirable" answers may be provided. Both the desirable and undesirable answers may be placed in a database. The player may press a designated game control button 18, which activates the microprocessor to randomly select a question from the database and to display the question. The player then presses a different designated game control button 18 which activates the microprocessor to select one of the desirable and undesirable answers associated with the displayed question. The player continues this process until the player has achieved either a predetermined number of undesirable answers or has obtained the desirable answer. The answers may be displayed on the second video monitor 24. The display of the desired answer will also display an associated value, such as 75X or \$75. If the player obtains the preselected number of undesirable answers prior to obtaining the desired answer, then the player will receive no award, or if the game is being played

as a bonus, second event feature to a basic casino video game, then the player may be awarded a minimum amount.

In the Jeopardy game variant, the value associated with the correct answer may be determined slightly differently from the values of the correct answers in the Family Feud game variant. Prior to the play of the Jeopardy game variant, a large number of questions are posed to a group of people, perhaps as many as 100 people. Each person in the group is then asked to provide a single answer to the question. For example, the question may be “He was the first of the first pair of Presidents having the same last name”, and 45 of the persons in the group of 100 persons correctly answered, “Who was John Adams?”. The same group would then be asked a different question, for example, “He starred in the movie Gone With the Wind”, and 58 of the persons in the group of 100 persons correctly responded, “Who was Clark Gable?”. Other questions are proposed to the group, and the number of correct answers tallied for each question. Questions with the most number of correct answers would be given a lesser value than the questions having a fewer number of correct answers. In essence, the harder the question/answer, then the correct answer would be more valuable. Where a game has one correct answer, then the value of the answer may be portrayed as the value of the question and the same are equivalent.

It should be appreciated that the “Trivial Pursuit” and the “Who Wants to Be A Millionaire?” games may be presented as variants similar to that described with reference to the Jeopardy game.

As an alternative to displaying the answers sequentially on a screen, the answers may be presented on the periphery of a virtual reel or cylinder that may be virtually spinning and may randomly stop at a selected location. Also alternatively, the answers may each be presented in pie shaped segments of a virtual disc or wheel, with either the disc virtually spinning or an arrow above

the wheel virtually spinning, and randomly stopping at a particular answer. In these latter two alternative embodiments, the player may depress a game control button 18 that initiates the spinning of the reel, wheel, or arrow, and a microprocessor may randomly stop the reel, wheel, or arrow at a location indicating the answer.

Where the value of a correct answer is a multiple of a wager, and the game is played as an adjunct bonus, secondary feature to a basic casino game, the wager to be multiplied in value may be determined as follows. The wager to be multiplied may be based upon the total amount wagered for the basic game. For example, a player of a slot machine may be given the option of placing one, two, three, or four quarters in the machine before spinning the reels. If the reels achieve a bonus situation enabling the player to play the Family Feud variant described above, then value of the player's winnings in the Family Feud variant will be a multiple of the total value of the quarters the player placed in the slot machine prior to the spin which achieved the bonus condition. As another alternative, for example, in a Multi-Draw poker game, the player is given the option of playing up to five rows of five card hands of draw poker and is given the further option of designating how much to wager for each of the rows. If a hand in one of the rows achieves a bonus condition (such as four of a kind) and the player is entitled to play the Family Feud variant described above, then the winnings of the Family Feud variant will be a multiple of the wager associated with the row containing the hand that achieved the bonus condition. In yet another alternative embodiment, the player may play a basic casino game of a five reel slot machine containing nine paylines. A bonus condition may be achieved by a bonus symbol appearing on three reels of a payline. If the player is then entitled to play the Family Feud variant described above, then any winnings may be a multiple of the wager associated with the payline containing the three winning symbols. If, as a

further example, the player achieved four bonus symbols on the same payline, or five bonus symbols on the same payline, then the value achieved in the Family Feud variant may be doubled or tripled, respectively.

In order to ensure that the house or casino does not lose money during play of the variant games described above, the “payback” to the player must be statistically calculated. When the variant game is played as an adjunct bonus, secondary event feature to a basic casino game, then the “payback” is calculated by further determining the average amount won in the bonus as well as the frequency of the bonus condition being achieved in the basic game. In the Family Feud variant, it is possible to devise the payback so that the average payback per question is substantially constant. In the Jeopardy variant discussed above, if different values are assigned based upon the difficulty of the question/answer, then the payback should be averaged over a large number of questions or at least the number of questions contained in the database. As a very simple example of calculating the payback for a Jeopardy variant, presume that there are three questions and a single desirable answer for each question, one of which has a value of 30 times the amount of the wager, another of which has a value of 22 times the value of the wager, and a third one of which has a value of 20 times the value of the wager. Further assume that the odds of obtaining the correct answer are one in three. The average payback would be eight times the value of the wager.

In a further variant of the Jeopardy game, the microprocessor may display on the second video monitor a plurality of different values, preferably three or four values, such as 40X, 25X, and 10X. The player may then select one of the values by pressing a designated game control button 18, and the microprocessor will then select a question from the database that has an associated value equal or substantially equal to the displayed value selected by the player. The microprocessor may

select the question randomly from questions having such value in the database or sequentially from a prescribed order of such questions in the database. Since the odds of a player obtaining a correct answer multiplied by the value of the question may be essentially constant from question to question, such a feature permits a player the opportunity to play more aggressively (assuming a greater risk for a higher award) or more conservatively (taking a lower risk for a lower award) even though average award remains essentially constant regardless of the value selected..

A more sophisticated system for calculating the value of awards in a Family Feud variant uses a modeling system for determining the value associated with the desirable answers. In one modeling system utilizing the curves shown in Figures 3, 4, and 5, the “X” axis represents the ranking of the answers based upon the frequency with which the answers are given, and the “Y” axis represents the number of times each answer was given. The curve shown in Figure 3 depicts a scenario where the most frequently given answers were given almost the same number of times, for example, the most frequently given answer was given 20 times, the next most frequent answer was given 19 times, and the third most frequent answer was given 18 times. The curve shown in Figure 4 depicts a scenario where the most frequently given answers were given a fairly constantly descending number of times, for example, the most frequent answer was given 24 times, the next most frequent answer was given 20 times, and the third most frequent answer was given 16 times. Lastly, the curve in Figure 5 illustrates a scenario in which the most frequent answer was given a disproportionately large number of times compared with the second, third, and fourth most frequent answers.

It is believed that psychologically a player may sense how one desirable answer compares with other desirable answers, that is, how frequently the desirable answer might be given by a group

of persons compared with the frequency with which a different desirable answer is given by the group. Accordingly, it is believed that a player should be given relatively more value for achieving a desirable answer that obtained a disproportionately large frequency of answers from the group.

The following tables show how the curves depicted in Figure 3, 4, and 5 may be implemented in modeling a Family Feud variant where the number of correct answers is either three, four, five, or six, and the number of undesirable answers is consistently three. In the following table, "Strike Out" means that the player did not obtain all of the desirable answers before obtaining the three undesirable answers, and the term "Expected Number of Picks" means the average total of desirable and undesirable answers that the player can expect to obtain during one round of play before either achieving all of the desirable answers or obtaining three undesirable answers.

Table Number	Number Correct Answers	Minimum Award	Maximum Award	Average Award Value	P(Get All Correct Answers)	P(Get No Correct Answers)	P(Strike Out)	Expected Number of Picks
1	3	10	150	113.00	50.00%	5.00%	50.00%	4.50
2	3	10	150	113.00	50.00%	5.00%	50.00%	4.50
3	3	10	150	113.00	50.00%	5.00%	50.00%	4.50
4	4	10	150	112.79	42.86%	2.86%	57.14%	5.40
5	4	10	150	112.79	42.86%	2.86%	57.14%	5.40
6	4	10	150	112.79	42.86%	2.86%	57.14%	5.40
7	5	10	150	112.68	37.50%	1.79%	62.50%	6.25
8	5	10	150	112.68	37.50%	1.79%	62.50%	6.25
9	5	10	150	112.68	37.50%	1.79%	62.50%	6.25
10	6	10	150	112.62	33.33%	1.19%	66.67%	7.07
11	6	10	150	112.62	33.33%	1.19%	66.67%	7.07
12	6	10	150	112.62	33.33%	1.19%	66.67%	7.07
Averages:	4.50	10.00	150.00	112.77	40.92%	2.71%	59.08%	5.81

Note that the Average Award Value is fairly constant.

The following four tables were used to create the Average Value Award in the foregoing table, using the curves illustrated in Figures 3, 4, 5. In the following tables, tables 1, 4, 7, and 10 illustrate the values in a scenario such as that shown in Figure 3; tables 2, 5, 8, and 11 illustrate the scenario depicted in the illustration in Figure 4, and tables 3, 6, 9, and 12 illustrate the scenario shown in Figure 5.

For Tables 1, 2, and 3 which all have 3 correct answers.

Answer Number	Table 1	Table 2	Table 3
1	65	75	80
2	55	50	45
3	30	25	25
4	-	-	-
5	-	-	-
6	-	-	-
Consolation	10	10	10

For Tables 4, 5, and 6 which all have 4 correct answers.

Answer Number	Table 4	Table 5	Table 6
1	45	55	70
2	40	45	35
3	35	30	25
4	30	20	20
5	-	-	-
6	-	-	-
Consolation	10	10	10

For Tables 7, 8, and 9 which all have 5 correct answers.

Answer Number	Table 7	Table 8	Table 9
1	45	50	60
2	40	35	30
3	30	30	25
4	20	20	20
5	15	15	15
6	-	-	-
Consolation	10	10	10

For Tables 10, 11, and 12 which all have 6 correct answers.

Answer Number	Table 10	Table 11	Table 12
1	40	40	50
2	35	30	25
3	30	25	22
4	18	22	20
5	15	18	18
6	12	15	15
Consolation	10	10	10

Note that the total values for the desirable answers in each table equal 150.

The base curves shown in Figures 3, 4, and 5 are generally depicted, however other curves may also be utilized. Also, there may be slight variations to the curves as shown in Figures 3, 4, and 5, and there may be any number of curves utilized. A curve is selected for use in determining a set of values based upon the amount of similarity or deviation of the actual scenario of the frequency of answers from each of the three base curves. The base curve having the closest similarity to the actual scenario is selected for constructing a value table. A very simple way of determining which of the base curves is most similar to the actual scenario is to determine the ratio between the number of times the most frequent answer is given and the number of times the next most frequent answer is given. For example, if the ratio is 1.5 or less, then the curve of Figure 3 and the values of one of the tables, 1, 4, 7, and 10 are selected; if the ratio is less than 2.5 but greater than 1.5, then the curve of Figure 4 and the values of one of the tables 2, 5, 8, or 11 are selected; and if the ratio is 2.5 or greater, then the curve of Figure 5 and the values of one of the one of the tables 3, 6, 9, and 12 are selected.

Although particular embodiments of the present invention have been described and illustrated

herein, it should be recognized that modifications and variations may readily occur to those skilled in the art and that such modifications and variations may be made without departing from the spirit and scope of our invention. Consequently, our invention as claimed below may be practiced otherwise than as specifically described above.

CLAIMS:

1. A method of playing a wagering game in which a player of the game may win an award comprising the steps of:

(a) providing an electronic database of a plurality of questions for presentation to the player;

(b) providing an electronic database of a plurality of answers associated with each question for presentation to the player;

(c) assigning a value to at least one answer;

(d) electronically selecting one of said plurality of questions;

(e) presenting said electronically selected question to the player;

(f) electronically selecting one of said answers associated with said electronically selected question;

(g) presenting said electronically selected answer to the player;

(h) displaying to the player any value assigned to said electronically selected and presented answer; and

(i) awarding to the player said displayed value.

2. A method according to claim 1 wherein step (e) occurs before step (g).

3. A method according to claim 1 wherein one of said plurality of questions is electronically, substantially randomly selected in step (d) and wherein one of said answers is electronically, substantially randomly selected in step (f).

4. A method according to claim 2 wherein one of said plurality of questions is electronically, substantially randomly selected in step (d) and wherein one of said answers is electronically, substantially randomly selected in step (f).

5. A method according to claim 1 wherein one of said questions is electronically selected in step (d) in response to a player initiated command.

6. A method according to claim 1 wherein one of said answers is electronically selected in step (f) in response to a player initiated command.

7. A method of playing a game in which a player of the game may win an award comprising the steps of:

(a) providing an electronic database of a plurality of questions for presentation to the player;

(b) providing an electronic data base of a plurality of answer groups each comprising a plurality of answers associated with one of said questions for presentation to the player,

each answer group including at least one desirable answer and at least one undesirable answer;

- (c) assigning a value to each desirable answer;
- (d) electronically selecting one of said plurality of questions;
- (e) presenting said electronically selected question to the player;
- (f) electronically selecting one of said answers from said answer group associated

with said electronically selected question;

- (g) presenting said electronically selected answer to the player;
- (h) displaying to the player any value assigned to said electronically selected and

presented answer; and

- (i) awarding to the player said displayed value.

8. A method according to claim 7 wherein each answer group includes a plurality of desirable answers and a plurality of undesirable answers.

9. A method according to claim 7 wherein said value is obtained substantially by presenting the question to a plurality of humans, having the humans provide an answer to the question, determining the number of times a particular answer is provided by the humans, ranking each particular answer by the number of times such answer is provided, with a higher rank given for a particular answer provided more times than another answer, and assigning a value substantially corresponding to said ranking, with a higher value assigned to a higher ranking answer.

10. A method according to claim 8 wherein said value is obtained substantially by

presenting the question to a plurality of humans, having the humans provide an answer to the question, determining the number of times a particular answer is provided by the humans, ranking each particular answer by the number of times such answer is provided, with a higher rank given for a particular answer provided more times than another answer, and assigning a value substantially corresponding to said ranking, with a higher value assigned to a higher ranking answer, wherein said plurality of desirable answers are selected entirely from the highest ranking answers.

11. A method according to claim 7 wherein step (e) occurs before step (g).

12. A method according to claim 9 wherein step (e) occurs before step (g).

13. A method according to claim 10 wherein step (e) occurs before step (g).

14. A method according to claim 7 wherein one of said plurality of questions is electronically, substantially randomly selected in step (d) and wherein one of said answers is electronically, substantially randomly selected in step (f).

15. A method according to claim 9 wherein one of said plurality of questions is electronically, substantially randomly selected in step (d) and wherein one of said answers is electronically, substantially randomly selected in step (f).

16. A method according to claim 10 wherein one of said plurality of questions is

electronically, substantially randomly selected in step (d) and wherein one of said answers is electronically, substantially randomly selected in step (f).

17. A method according to claim 7 wherein said value is obtained substantially by presenting a plurality of questions to a plurality of humans, each question having a single, correct answer, having the humans provide an answer to each question, determining for each question the number of times the correct answer is provided by the humans, ranking each correct answer by the number of times such correct answer is provided relative to the number of times correct answers were provided to other questions, with a higher rank given for a correct answer provided less times than correct answers to other questions, and assigning a value substantially corresponding to said ranking, with a higher value assigned to a higher ranking answer.

18. A method according to claim 17 wherein step (e) occurs before step (g).

19. A method according to claim 17 wherein one of said plurality of questions is electronically, substantially randomly selected in step (d) and wherein one of said answers is electronically, substantially randomly selected in step (f).

20. A method of playing a game in which a player of the game may win an award comprising the steps of:

(a) providing an electronic database of a plurality of questions for presentation to the player;

(b) providing an electronic database of a plurality of answer groups each comprising a plurality of answers associated with one of said questions for presentation to the player, each answer group including at least one desirable answer and a plurality of undesirable answers;

(c) assigning a value to each desirable answer;

(d) electronically selecting one of said plurality of questions;

(e) presenting said electronically selected question to the player;

(f) electronically, substantially randomly, successively selecting ones of said answers from said answer group associated with said electronically selected question until either a preselected number of undesirable answers are electronically selected or until a preselected number of desirable answers are electronically selected;

(g) presenting said electronically selected answer or answers to the player; and

(h) awarding to the player the aggregate, total value of each value assigned to each said electronically selected and presented desirable answers.

21. A method according to claim 20 wherein said value is obtained substantially by presenting the question to a plurality of humans, having the humans provide an answer to the question, determining the number of times a particular answer is provided by the humans, ranking each particular answer by the number of times such answer is provided, with a higher rank given for a particular answer provided more times than another answer, and assigning a value substantially corresponding to said ranking, with a higher value assigned to a higher ranking answer.

22. A method according to claim 20 wherein said value is obtained substantially by

presenting a plurality of questions to a plurality of humans, each question having a single, correct answer, having the humans provide an answer to each question, determining for each question the number of times the correct answer is provided by the humans, ranking each correct answer by the number of times such correct answer is provided relative to the number of times correct answers were provided to other questions, with a higher rank given for a correct answer provided less times than correct answers to other questions, and assigning a value substantially corresponding to said ranking, with a higher value assigned to a higher ranking answer.

23. A method according to claim 20 wherein said preselected number of undesirable answers is three.

24. A method according to claim 23 wherein the number of undesirable answers in each answer group is at least three.

25. A method according to claim 21 wherein the number of undesirable answers in each answer group is at least three and wherein said preselected number of undesirable answers is three.

26. A method according to claim 20 wherein the number of desirable answers in each answer group is three, four, five, or six.

27. A method according to claim 21 wherein the number of desirable answers in each answer group is three, four, five, or six.

28. A method according to claim 24 wherein the number of desirable answers in each answer group is three, four, five, or six.

29. A method according to claim 25 wherein the number of desirable answers in each answer group is three, four, five, or six.

30. A method of playing a wagering game in which a player of the game may win an award comprising the steps of:

(a) providing an electronic database of a plurality of questions for presentation to the player;

(b) providing an electronic database of a plurality of answers associated with each question for presentation to the player;

(c) assigning a value to at least one answer;

(d) presenting a plurality of questions to the player;

(e) selecting one of said presented questions for further play;

(f) electronically selecting one of said answers associated with said selected question;

(g) presenting said electronically selected answer to the player;

(h) displaying to the player any value assigned to said electronically selected and presented answer; and

(i) awarding to the player said displayed value.

31. A method according to claim 30 wherein step (e) occurs before step (g).

32. A method according to claim 30 wherein said plurality of questions is electronically, substantially randomly presented in step (d) and wherein one of said answers is electronically, substantially randomly selected in step (f).

33. A method according to claim 31 wherein said plurality of questions is electronically, substantially randomly presented in step (d) and wherein one of said answers is electronically, substantially randomly selected in step (f).

34. A method according to claim 30 wherein one of said questions is selected in step (e) in response to a player initiated command.

35. A method according to claim 30 wherein one of said answers is electronically selected in step (f) in response to a player initiated command.

36. A method of playing a game in which a player of the game may win an award comprising the steps of:

(a) providing an electronic database of a plurality of questions for presentation to the player;

(b) providing an electronic data base of a plurality of answer groups each comprising a plurality of answers associated with one of said questions for presentation to the player, each answer group including at least one desirable answer and at least one undesirable answer;

(c) assigning a value to each desirable answer;

- (d) presenting a plurality of questions to the player;
- (e) selecting one of said presented questions for further play;

with said selected question;

- (g) presenting said electronically selected answer to the player;
- (h) displaying to the player any value assigned to said electronically selected and presented answer; and
- (i) awarding to the player said displayed value.

37. A method according to claim 36 wherein each answer group includes a plurality of desirable answers and a plurality of undesirable answers.

38. A method according to claim 36 wherein said value is obtained substantially by presenting the question to a plurality of humans, having the humans provide an answer to the question, determining the number of times a particular answer is provided by the humans, ranking each particular answer by the number of times such answer is provided, with a higher rank given for a particular answer provided more times than another answer, and assigning a value substantially corresponding to said ranking, with a higher value assigned to a higher ranking answer.

39. A method according to claim 37 wherein said value is obtained substantially by presenting the question to a plurality of humans, having the humans provide an answer to the question, determining the number of times a particular answer is provided by the humans, ranking each particular answer by the number of times such answer is provided, with a higher rank given for

46. A method of playing a game in which a player of the game may win an award comprising the steps of:

- (a) providing an electronic database of a plurality of questions for presentation to the player;
- (b) providing an electronic database of a plurality of answer groups each comprising a plurality of answers associated with one of said questions for presentation to the player, each answer group including at least one desirable answer and a plurality of undesirable answers;
- (c) assigning a value to each desirable answer;
- (d) presenting a plurality of questions to the player;
- (e) selecting one of said presented questions for further play;
- (f) electronically, substantially randomly, successively selecting ones of said answers from said answer group associated with said selected question until either a preselected number of undesirable answers are electronically selected or until a preselected number of desirable answers are electronically selected;
- (g) presenting said electronically selected answer or answers to the player; and
- (h) awarding to the player the aggregate, total value of each value assigned to each said electronically selected and presented desirable answers.

47. A method according to claim 46 wherein said value is obtained substantially by presenting the question to a plurality of humans, having the humans provide an answer to the question, determining the number of times a particular answer is provided by the humans, ranking each particular answer by the number of times such answer is provided, with a higher rank given for

a particular answer provided more times than another answer, and assigning a value substantially corresponding to said ranking, with a higher value assigned to a higher ranking answer.

48. A method according to claim 46 wherein said preselected number of undesirable answers is three.

49. A method according to claim 48 wherein the number of undesirable answers in each answer group is at least three.

50. A method according to claim 47 wherein the number of undesirable answers in each answer group is at least three and wherein said preselected number of undesirable answers is three.

51. A method according to claim 46 wherein the number of desirable answers in each answer group is three, four, five, or six.

52. A method according to claim 47 wherein the number of desirable answers in each answer group is three, four, five, or six.

53. A method according to claim 49 wherein the number of desirable answers in each answer group is three, four, five, or six.

54. A method according to claim 50 wherein the number of desirable answers in each

answer group is three, four, five, or six.

55. A method of playing a wagering game in which a player of the game may win an award comprising the steps of:

- (a) providing an electronic database of a plurality of questions for presentation to the player;
- (b) providing an electronic database of a plurality of answers associated with each question for presentation to the player, only one of which answers is desirable;
- (c) assigning a value to each question and the associated desirable answer, such value selected from a plurality of different values;
- (d) presenting at least two of said different values to the player;
- (e) selecting one of said presented values;
- (f) electronically selecting one of said questions assigned to said selected value;
- (g) presenting said electronically selected question to the player;
- (h) electronically selecting and presenting to the player one of said answers associated with said selected and presented question; and
- (i) awarding to the player said selected value if said electronically selected and presented answer is the desirable answer associated with said selected and presented question.

56. A method according to claim 55 wherein step (e) occurs before step (g).

57. A method according to claim 55 wherein one of said questions assigned said selected

value is electronically, substantially randomly selected in step (f) and wherein one of said answers is electronically, substantially randomly selected in step (h).

58. A method according to claim 56 wherein one of said questions assigned said selected value is electronically, substantially randomly selected in step (f) and wherein one of said answers is electronically, substantially randomly selected in step (h).

59. A method according to claim 55 wherein one of said questions assigned said selected value is electronically selected in step (f) in response to a player initiated command.

60. A method according to claim 55 wherein one of said answers is electronically selected in step (h) in response to a player initiated command.

61. A method according to claim 55 wherein said plurality of different values numbers three or four different values.

62. A method according to claim 57 wherein said plurality of different values numbers three or four different values.

63. A method according to claim 58 wherein said plurality of different values numbers three or four different values.

64. A method of playing a game in which a player of the game may win an award comprising the steps of:

(a) providing an electronic database of a plurality of questions for presentation to the player;

(b) providing an electronic data base of a plurality of answer groups each comprising a plurality of answers associated with one of said questions for presentation to the player, each answer group including only one desirable answer and at least one undesirable answer;

(c) assigning a value to each question and the associated desirable answer, such value selected from a plurality of different values;

(d) presenting at least two of said different values to the player;

(e) selecting one of said preselected values;

(f) electronically selecting one of said questions assigned said selected values;

(g) presenting said electronic selection question to the player;

(h) electronically selecting and presenting to the player one of said answers in the answer group associated with said selected and presented question;

(i) awarding to the player said selected value if said electronically selected and presented answer is the desirable answer associated with said selected and presented question.

65. A method according to claim 64 wherein said plurality of different values numbers three or four different values.

66. A method according to claim 64 wherein step (e) occurs before step (g).

67. A method according to claim 65 wherein step (e) occurs before step (g).

68. A method according to claim 64 wherein one of said of questions assigned said selected value is electronically, substantially randomly selected in step (f) and wherein one of said answers is electronically, substantially randomly selected in step (h).

69. A method according to claim 65 wherein one of said questions assigned said selected value is electronically, substantially randomly selected in step (f) and wherein one of said answers is electronically, substantially randomly selected in step (h).

70. A method according to claim 64 wherein said value is obtained substantially by presenting a plurality of questions to a plurality of humans, each question having a single, correct answer, having the humans provide an answer to each question, determining for each question the number of times the correct answer is provided by the humans, ranking each correct answer by the number of times such correct answer is provided relative to the number of times correct answers were provided to other questions, with a higher rank given for a correct answer provided less times than correct answers to other questions, and assigning a value substantially corresponding to said ranking, with a higher value assigned to a higher ranking answer.

71. A method according to claim 70 wherein said plurality of different values numbers three or four different values.

72. A method according to claim 70 wherein step (e) occurs before step (g).

73. A method according to claim 64 wherein one of said questions assigned said selected value is electronically, substantially randomly selected in step (f) and wherein one of said answers is electronically, substantially randomly selected in step (h).

74. A method of playing a game in which a player of the game may win an award comprising the steps of:

(a) providing an electronic database of a plurality of questions for presentation to the player;

(b) providing an electronic database of a plurality of answer groups each comprising a plurality of answers associated with one of said questions for presentation to the player, each answer group including only one desirable answer and at least one undesirable answer;

(c) assigning a value to each question and the associated desirable answer, such value selected from a plurality of different values;

(d) presenting at least two of said different values to the player;

(e) selecting one of said presented values;

(f) electronically selecting and presenting to the player one of said questions assigned said selected value;

(g) electronically, substantially randomly, successively selecting ones of said answers from said answer group associated with said electronically selected question until either a preselected number of undesirable answers are electronically selected or until said desirable answer

is electronically selected;

- (h) presenting said electronically selected answer or answers to the player; and
- (i) awarding to the player said selected value if said desirable answer is selected

before a preselected number of undesirable answers are selected.

75. A method according to claim 74 wherein said value is obtained substantially by presenting a plurality of questions to a plurality of humans, each question having a single, correct answer, having the humans provide an answer to each question, determining for each question the number of times the correct answer is provided by the humans, ranking each correct answer by the number of times such correct answer is provided relative to the number of times correct answers were provided to other questions, with a higher rank given for a correct answer provided less times than correct answers to other questions, and assigning a value substantially corresponding to said ranking, with a higher value assigned to a higher ranking answer.

76. A method according to claim 74 wherein said preselected number of undesirable answers is three.

77. A method according to claim 75 wherein said preselected number of undesirable answers is three.

78. A method according to claim 74 wherein the number of undesirable answers in each answer group is at least three.

79. A method according to claim 75 wherein the number of undesirable answers in each answer group is at least three.

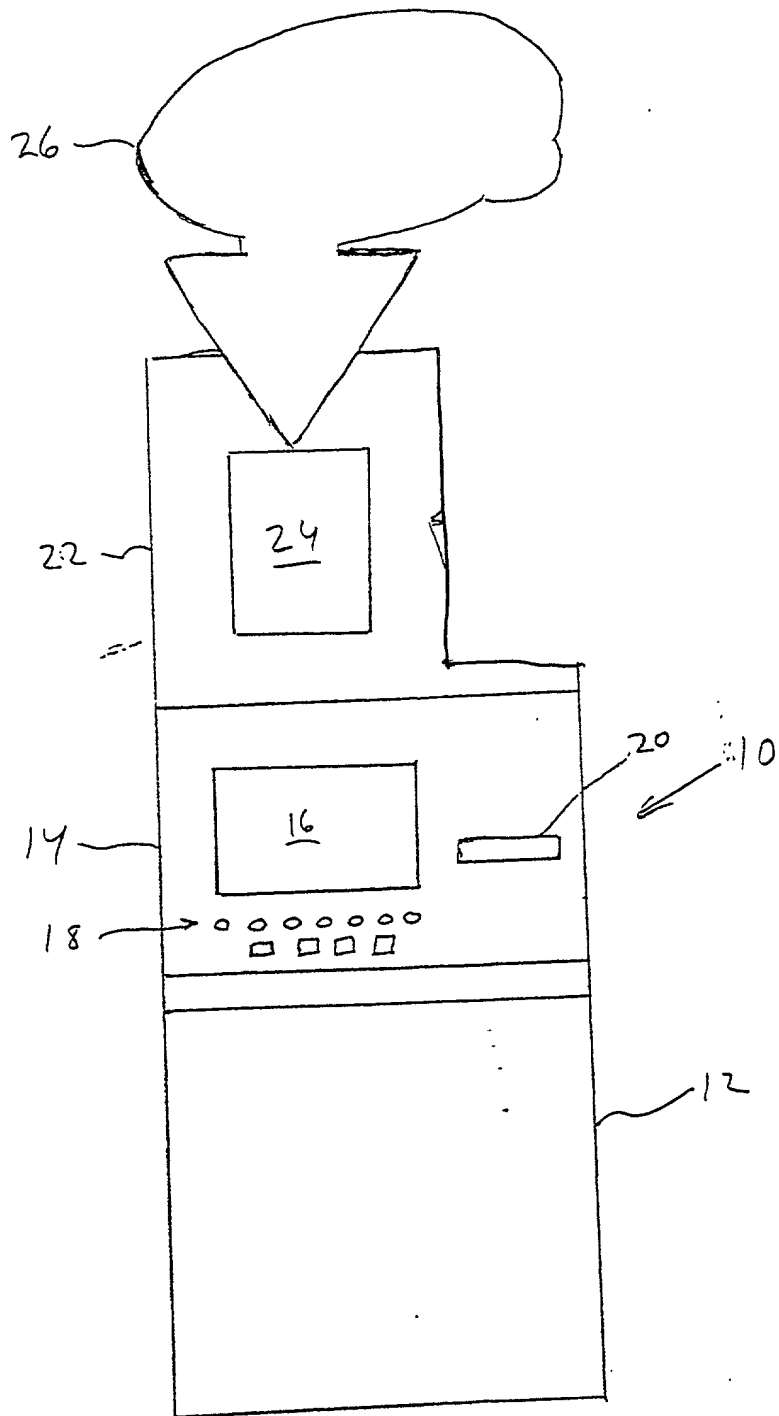
80. A method according to claim 74 wherein the number of undesirable answers in each answer group is at least three and wherein said preselected number of undesirable answers is three.

81. A method according to claim 75 wherein the number of undesirable answers in each answer group is at least three and wherein said preselected number of undesirable answers is three.

Abstract

A method of playing a game of chance that presents a player with a question and potentially displays a group of answers, at least one of which is a desirable answer.

Fig-1



10

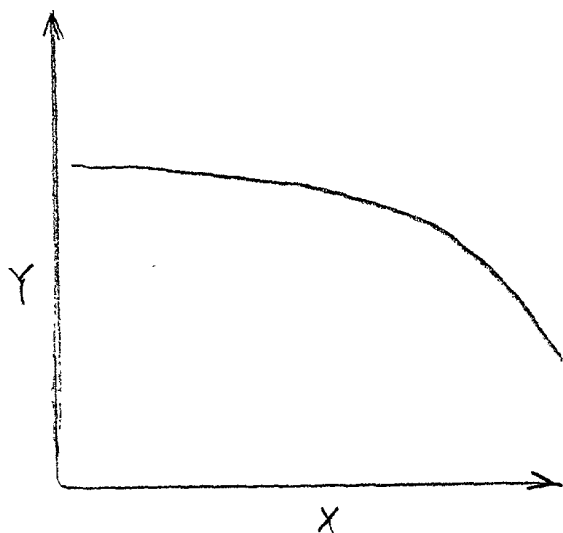


Fig. 3

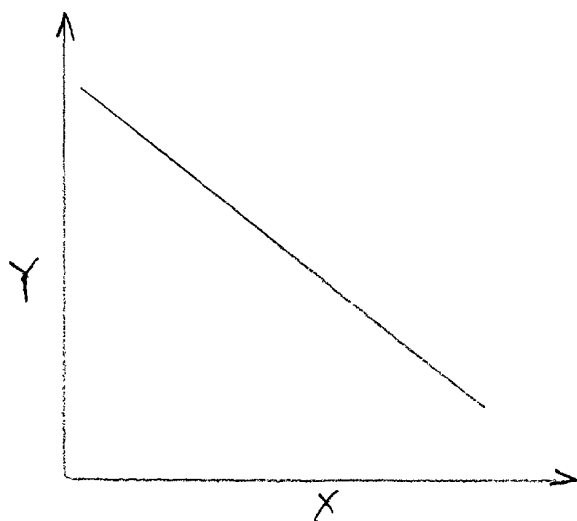


Fig. 4

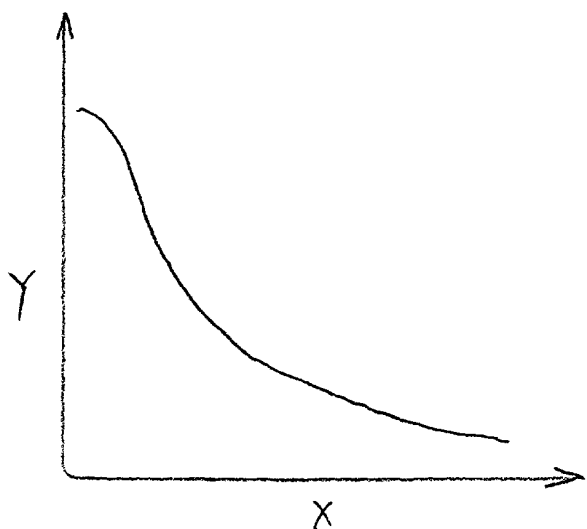


Fig. 5

Docket No.

Declaration and Power of Attorney For Patent Application

English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled
METHOD OF PLAYING A GAME INVOLVING QUESTIONS AND ANSWERS

the specification of which

(check one)

☒ is attached hereto.

☐ was filed on _____ as United States Application No. or PCT International
 Application Number _____
 and was amended on _____
 (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed

(Number)

(Country)

(Day/Month/Year Filed)

☐

(Number)

(Country)

(Day/Month/Year Filed)

☐

(Number)

(Country)

(Day/Month/Year Filed)

☐

I hereby claim the benefit under 35 U.S.C. Section 119(e) of any United States provisional application(s) listed below:

(Application Serial No.)

(Filing Date)

(Application Serial No.)

(Filing Date)

(Application Serial No.)

(Filing Date)

I hereby claim the benefit under 35 U. S. C. Section 120 of any United States application(s), or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, C. F. R., Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. *(list name and registration number)*

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